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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/680,118	10/04/2000	Jon B. Avner	13768.173	7799

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EXAMINER

HAMILTON, MONPLAISIR G

ART UNIT	PAPER NUMBER
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2172

DATE MAILED: 04/10/2003

6

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/680,118

Applicant(s)

AVNER ET AL.

Examiner

Monplaisir G Hamilton

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 January 2003.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) canceled.
- 5) ☐ Claim(s) is/are allowed.
- 6) ☒ Claim(s) 1-25 is/are rejected.
- 7) ☐ Claim(s) is/are objected to.
- 8) ☐ Claim(s) are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. .
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s)
- 4) ☐ Interview Summary (PTO-413) Paper No(s).
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

DETAILED ACTION

1. The communication filed on 1/21/03 canceled claim 26 and amended claims 1, 5-6, 9-13, 17-19, 21 and 25. Claims 1-25 remain for examination.

Response to Arguments

2. Applicant's arguments with respect to Claims 1-25 have been considered but are moot in view of the new ground(s) of rejection.

On page 8 of amendment "A" applicant argues that the admitted prior art does not disclose "an act of causing one or more identified client applications to be notified that a high-level document command meeting certain criteria has been received". Applicant successfully distinguished this limitation from the admitted prior art by explicitly stating "prior to implementing the high-level document command, an act of causing one or more identified client applications to be notified that a high-level document command meeting certain criteria has been received". However, examiner contends that the admitted prior art discloses "an act of receiving a high level document command meeting certain criteria". Therefore the admitted prior art is still applicable under a 103 rejection with the newly cited art US 6226745 issued to Wiederhold.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

3. Claims 1-2, 4-20, 22-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Admitted Prior Art (Fig 1; pages 2-4), herein referred to as Admission in view of US 6226745 issued to Wiederhold herein referred to as Wiederhold.

Referring to Claims 1 and 19:

Admission discloses a database management system that includes a database engine that receives and implements high-level document commands, each high-level document command comprising one or more operations to be performed on a document, a method for allowing client applications to control how a particular high-level document command is implemented, the method comprising the following: an act of receiving a high-level document command meeting certain criteria (Fig 1, page 3, lines 17-24; page 4, lines 1-10).

Admission does not explicitly disclose "prior to implementing the high-level document command, an act of identifying one or more client applications that are to be notified of the receipt of the high-level document command; prior to implementing the high-level document command, an act of notifying the one or more identified client applications that the high-level document command meeting the certain criteria has been received; an act of receiving instructions from the one or more client applications on how to affect the implementation of the high-level document command; and an act of following the received instructions when

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implementing the high-level document command for performing the one or more operations on the document, or not implementing the high-level document command at all if the received instructions so indicate.”

Wiederhold discloses prior to implementing the high-level document command, an act of identifying one or more client applications that are to be notified of the receipt of the high-level document command (col 3, lines 20-45); prior to implementing the high-level document command, an act of notifying the one or more identified client applications that the high-level document command meeting the certain criteria has been received (col 3, lines 50-60; col 4, lines 55-65; col 5, lines 1-5); an act of receiving instructions from the one or more client applications on how to affect the implementation of the high-level document command (col 5, lines 4-10); and an act of following the received instructions when implementing the high-level document command for performing the one or more operations on the document, or not implementing the high-level document command at all if the received instructions so indicate (col 5, lines 4-10; col 7, lines 1-20).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to modify the teachings of Admission such that a client application/mediator can control how or if a particular high-level document command is implemented. One of ordinary skill in the art would have been motivated to do this because it would provide a security mechanism that is able to ensure that security rules are not violated (Wiederhold: col 3, lines 20-65).

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Referring to Claim 17:

Admission discloses a database management system that includes a database engine that accesses and updates objects in a database, the database engine receiving high-level document commands, each high-level document command for performing an operation on a document that is associated with a plurality of tables in the database, a method for allowing client applications to control how a particular high-level document command is implemented in the database, the method comprising the following: an act of receiving a high-level document command meeting certain criteria (Fig 1, page 3, lines 17-24; page 4, lines 1-10);

Admission does not explicitly disclose “a step for allowing one or more client applications to affect how the received high-level document command is to be implemented, if at all, in the database, the step for allowing one or more client applications to affect how the received high level document command is to be implemented, including an act of identifying one or more client applications that are to be notified of the receipt of the high-level document command, and an act of notifying the one or more identified client applications that a high-level document command meeting certain criteria has been received prior to implementing the high-level document command.”

Wiederhold discloses a step for allowing one or more client applications to affect how the received high-level document command is to be implemented, if at all, in the database (col 3, lines 50-65), the step for allowing one or more client applications to affect how the received high level document command is to be implemented, including an act of identifying one or more client applications that are to be notified of the receipt of the high-level document command (col 3, lines 20-50; col 4, lines 55-65; col 7, lines 5-15), and an act of notifying the one or more

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identified client applications that a high-level document command meeting certain criteria has been received prior to implementing the high-level document command (col 6, lines 55-65).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to modify the teachings of Admission such that a client application/mediator can control how or if a particular high-level document command is implemented. One of ordinary skill in the art would have been motivated to do this because it would provide a security mechanism that is able to ensure that security rules are not violated (Wiederhold: col 3, lines 20-65).

Referring to Claim 25:

Admission discloses a database management system for implementing high-level document commands for performing an operation on a document, each document being associated with a plurality of tables in an underlying database, the database management system comprising: a database application that is configured to send high-level document commands (Fig 1, page 3, lines 17-24; page 4, lines 1-10);

Admission does not explicitly disclose "a notification component that is configured to send a notification to any identified client application when a given high-level document command is received by the database management system, and prior to implementation of the high-level document command; an instruction receiver module that is configured to receive instructions from the notified third party application on how to implement the high-level document command; and a database engine configured to follow the received instructions when implementing the high-level document command."

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Wiederhold discloses a notification component that is configured to send a notification to any identified client application when a given high-level document command is received by the database management system, and prior to implementation of the high-level document command (col 3, lines 50-60; col 5, lines 1-10); an instruction receiver module that is configured to receive instructions from the notified third party application on how to implement the high-level document command (col 7, lines 5-20); and a database engine configured to follow the received instructions when implementing the high-level document command (col 5, lines 1-10; col 7, lines 5-20).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to modify the teachings of Admission such that a client application/mediator can control how or if a particular high-level document command is implemented. One of ordinary skill in the art would have been motivated to do this because it would provide a security mechanism that is able to ensure that security rules are not violated (Wiederhold: col 3, lines 20-65).

Referring to Claims 2 and 20:

Admission in view of Wiederhold discloses the limitations as discussed in Claims 1 and 19 above. Wiederhold further discloses the received instructions are for performing additional high-level document commands in addition to the received high-level document command (col 7, lines 9-16).

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Referring to Claim 5:

Admission in view of Wiederhold discloses the limitations as discussed in Claims 1 and 19 above. Wiederhold further discloses the received instructions are for changing how the high-level document command is to be implemented in the database that is accessed by the database management system (col 3, lines 50-60; col 8, lines 40-50)

Referring to Claim 6:

Admission in view of Wiederhold discloses the limitations as discussed in Claims 1 and 19 above. Wiederhold further discloses the received instructions are for preventing the high-level document command from being implemented at all (col 3, lines 50-60; col 8, lines 40-50).

Referring to Claim 7:

Admission in view of Wiederhold discloses the limitations as discussed in Claims 1 and 19 above. Admission further discloses the high-level document command is for performing an operation on an electronic mail message (page 3, lines 8-12, 17-20).

Referring to Claim 8:

Admission in view of Wiederhold discloses the limitations as discussed in Claims 1 and 19 above. Admission further discloses the high-level document command is for performing an operation on a folder that contains electronic mail messages (page 3, lines 8-12, 17-20).

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Referring to Claims 9-13:

Admission in view of Wiederhold discloses the limitations as discussed in Claims 1 and 19 above. Admission further discloses the high-level document command is for moving, deleting, copying, updating, adding a document (page 3, lines 17-20).

Referring to Claim 14 and 22:

Admission in view of Wiederhold discloses the limitations as discussed in Claims 1 and 19 above. Wiederhold further disclose the act of notifying the one or more identified client applications comprises an act of transmitting a message to a machine that hosts the client application, the machine that host the client application being different that the machine that hosts the database management system (Fig 1; Fig 2; col 3, lines 25- 40).

Referring to Claim 15 and 23:

Admission in view of Wiederhold discloses the limitations as discussed in Claims 1 and 19 above. Wiederhold further disclose the act of notifying the one or more identified client applications comprises an act of passing the notification through a function call to the identified client application, the client application hosted by the same machine at least the portion of the database management system responsible for performing the act of notifying the client applications (col 5, lines 25-30).

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Referring to Claim 16:

Admission in view of Wiederhold discloses the limitations as discussed in Claims 1 and 19 above. Wiederhold further disclose the act of receiving instructions from the one or more client applications occurs prior to the act of receiving the high-level document command (col 6, lines 30-45).

Referring to Claim 18:

Admission in view of Wiederhold discloses the limitations as discussed in Claim 17 above. Wiederhold further discloses the step for allowing one or more client applications to affect how the received high-level document command is to be implemented further includes: an act of receiving instructions from the one or more client applications on how to affect the implementation of the high-level document command in the database (col 7, lines 5-20; col 4, lines 55-65); and an act of following the received instructions when implementing the high-level document command, or not implementing the high-level document command at all if the received instructions so indicate (col 3, lines 35-65; col 5, lines 1-10).

Referring to Claim 24:

Admission in view of Wiederhold discloses the limitations as discussed in Claims 1 and 19 above. Wiederhold further discloses a computer-readable media comprises one or more physical storage media (col 10, lines 24-30).

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4. Claims 3-4 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Admitted Prior Art (Fig 1; pages 2-4), herein referred to as Admission in view of US 6226745 issued to Wiederhold herein referred to as Wiederhold further in view of US Patent 5893128 issued to Nauckhoff, herein referred to as Nauckhoff.

Referring to Claims 3 and 21:

Admission and Wiederhold discloses the limitations as discussed in Claims 1 and 20 above.

Admission and Wiederhold does not explicitly disclose the claimed "instructions for atomically implementing the additional high-level document commands and the received high-level document command in a database accessed by the database management system."

Nauckhoff discloses, that document commands are implemented atomically (col 7, lines 25-35).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to implement the additional commands atomically. One of ordinary skill in the art would have been motivated to do this because it would allow the system to perform rollback operations if necessary (Nauckhoff: col 7, lines 29-30)

Referring to Claim 4:

Admission and Wiederhold further in view of Nauckhoff disclose the limitations as disclosed in Claim 3 above. Nauckhoff further discloses the additional high-level document

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command and the received high-level document command are implemented atomically using a group operation (col 8, lines 1-2).

Prior Art

5. US 6529938 issued to Cochran, Stephen Thomas et al. Cochran discloses a system, method, and program for executing operations on a client computer transmitted from a server over a network. A server operation is received indicating actions to perform on the client. A determination is made as to whether the requested operation is permitted according to a set of rules. The requested operation is executed on the client if there is no rule that prohibits the requested operation. The server is then notified that the requested action completed or that the requested action was not executed because of at least one rule prohibiting execution of the operation.

US 6240414 issued to Beizer, Mordechai M. et al. Beizer discloses a method and system for automatically resolving data conflicts in a shared data environment where a plurality of users can concurrently access at least portions of a master data file is presented. Users process data files by means of local copies of a master data file. When an attempted update of a master data file with an edited data file from a user is detected, the updating file is analyzed to determine if any changes made are in conflict with changes made to the master data file by a second user. If a conflict is detected, it is resolved by merging the updating file into the master file according to a predefined set of rules. For conflicts which are not resolved by rule-based

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reconciliation, at least one user is notified of the conflict and presented with conflict resolving information and the conflict is resolved according to user input.

Final Rejection

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

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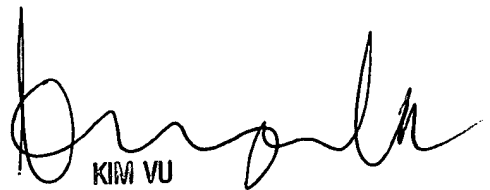
Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Monplaisir G Hamilton whose telephone number is 1703-305-5116. The examiner can normally be reached on Monday - Friday (8:00 am - 4:30 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Y Vu can be reached on 1703-305-4393. The fax phone numbers for the organization where this application or proceeding is assigned are 1703-746-7239 for regular communications and 1703-746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 1703-305-3900.

Monplaisir Hamilton
April 1, 2003


KIM VU
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100